

WHAT IS CLAIMED IS:

1. A shutter apparatus comprising:

a shutter base plate having a shutter aperture;

5 a first arm member which rotates around a center of rotation at a first axis, relative to said shutter base plate;

a second arm member which rotates around a center of rotation at a second axis, relative to said shutter base plate; and

10 a plurality of shutter blades,

wherein each of the plurality of shutter blades is coupled to said first and second arm members, wherein said first and second arm members rotate around their respective axes whereby said plurality of shutter
15 blades run over said shutter aperture, wherein each shutter blade has a blade main body portion extending in a direction perpendicular to a running direction thereof, and wherein a first shutter blade with a smallest running travel comprises a light shielding
20 portion projecting in said running direction on the coupling portion side to said first and second arm members and arranged to effect light shielding of said shutter aperture.

25 2. The apparatus according to Claim 1, which satisfies the following condition:

$$L1 > W1,$$

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where W1 is a length in the running direction, of the blade main body portion of said first shutter blade and L1 is a projection length of said light shielding portion from said blade main body portion.

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3. The apparatus according to Claim 1, wherein a second shutter blade with a second smallest running travel out of said plurality of shutter blades comprises a second light shielding portion projecting in said running direction on the coupling portion side to said first and second arm members and arranged to effect light shielding of said shutter aperture.

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4. The apparatus according to Claim 3, which satisfies the following condition:

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$$L2 > W2,$$

where W2 is a length in the running direction, of the blade main body portion of said second shutter blade and L2 is a projection length of said second light shielding portion from said blade main body portion.

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5. A camera comprising the apparatus as set forth in Claim 1.

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6. The apparatus according to Claim 1, wherein the number of said shutter blades is 4.

7. A shutter apparatus comprising:

a shutter base plate having a shutter aperture;

5 a first arm member which rotates around a center of rotation at a first axis, relative to said shutter base plate;

a second arm member which rotates around a center of rotation at a second axis, relative to said shutter base plate; and

a plurality of shutter blades,

10 wherein each of the plurality of shutter blades is coupled to said first and second arm members, wherein said first and second arm members rotate around their respective axes whereby said plurality of shutter blades run over said shutter aperture, wherein each
15 shutter blade has a blade main body portion extending in a direction perpendicular to a running direction thereof, and wherein a first shutter blade with a second smallest running travel comprises a light shielding portion projecting in said running direction
20 on the coupling portion side to said first and second arm members and arranged to effect light shielding of said shutter aperture.

8. The apparatus according to Claim 7, which
25 satisfies the following condition:

$L2 > W2$,

where $W2$ is a length in the running direction, of

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the blade main body portion of said first shutter blade and L2 is a projection length of said light shielding portion from said blade main body portion.

5 9. The apparatus according to Claim 7, wherein a second shutter blade with a smallest running travel out of said plurality of shutter blades comprises a second light shielding portion projecting in said running direction on the coupling portion side to said first
10 and second arm members and arranged to effect light shielding of said shutter aperture.

10 10. The apparatus according to Claim 9, which satisfies the following condition:

15 L1 > W1,

 where W1 is a length in the running direction, of the blade main body portion of said second shutter blade and L1 is a projection length of said second light shielding portion from said blade main body
20 portion.

 11. A camera comprising the apparatus as set forth in Claim 7.

25 12. The apparatus according to Claim 7, wherein the number of said shutter blades is 4.

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